APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

Odabashyan, G.V.

5(1)

S/019/59/000/22/066/439
D003/D001

AUTHORS: Ponomarenko, V.A., Petrov, A.D. and Odabashyan, G.V.

TITLE: Method of Obtaining Alkyl- and Dialkyl Dichlorosilanes

PERIODICAL: Byulleten' izobreteniy, 1959, Nr 22, p 21 (USSR)

ABSTRACT: Class 120, 26_{03}. Nr 123960 (624005/23 of 2 Apr 1959). Method of obtaining alkyl-and dialkyl dichlorosilane from lower olefins and unsaturated simple halogenated ethers in the presence of chloroplatinous acid, with the use of dichlorosilane instead of hydridsilane.

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Odabashyan, G.V.

5(1)

S/019/59/000/22/065/439
D003/D001

AUTHORS: Petrov, A.D., Ponomarenko, V.A. and Odabashyan, G.V.

TITLE: Method of Obtaining Vinyl- and Phenyl-Dichloro Silanes

PERIODICAL: Byulleten' izobreteniy, 1959, Nr 22, p 21 (USSR)

ABSTRACT: Class 120, 26_{03}. Nr 123959 (624004/23 of 2 Apr 1959). Method of obtaining vinyl- and phenyl-dichloro silanes through thermal condensation correspondingly haloide alkenyne ("alkenil") and aryl with silane hydride. To simplify the process dichloro-silane is used for dichloro silane hydride.

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ZHURAVLEVA, T.A.; ODABASHYAN, G.V.; LEONOVA, T.S.; PETROV, A.D.

Reaction of dichlorosilane with organic chlorides at high temperatures. Dokl. AN SSSR 154 no.1:144-147 Ja'64. (MIRA 17:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva. 2. Chlen-korrespondent AN SSSR (for Petrov).

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+ solidification point; ++ for the supercooled liquid. Ye. D. Lubuzh is mentioned. There are 1 table and 21 references: 16 Soviet and 5 non-Soviet. The three most recent references to English-language publications read as follows: L. H. Sommer, F. A. Mitch, G. M. Goldberg, J. Am. Chem. Soc., 71, 2746 (1949); L. H. Sommer, G. R. Ansul, J. Am. Chem. Soc., 77, 2482 (1955); P. D. George, H. Prober, I. R. Elliott, Chem. Rev., 56, 1065 (1956).

SUBMITTED: October 20, 1961

Table 1. Addition of dichloro silane to vinyl and allyl silanes in the presence of 0.1 ml of a 0.1 M solution of $H_2PtCl_6 \cdot 6H_2O$ in isopropyl alcohol (reaction time 1.5 hrs from the beginning of heating onward).

Legend: (a) Initial products; (b) amount; (c) g; (d) moles; (e) maximum reaction temperature, °C; (f) maximum pressure, atm; (g) isolated from reaction products; (h) yields; * calculated for the alkenyl silanes added; ** described in publications.

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Study of the addition reaction...

S/020/62/142/003/018/027
B106/B110

Compound	Bp, °C/mm Hg	Fp, °C	d_4^{20}	n_D^{20}	MR_D
$Cl_2Si(CH_2CH_2SiCl_3)_2$	140-142/6	58-60			
$Cl_2Si[CH_2CH_2Si(CH_3)Cl_2]_2$	165-166/13	80-81			
$Cl_2Si[CH_2CH_2Si(CH_3)_3]_2$	135/17	66-68			
$Cl_2Si[CH_2CH_2Si(C_2H_5)Cl_2]_2$	171-172/8	29-32+			
$Cl_2Si[CH_2CH_2Si(C_2H_5)_3]_2$	176-178/6		0.9639	1.4775	113.15
$Cl_2Si(CH_2CH_2CH_2SiCl_3)_2$	172-173/12	28+	1.4160 ++	1.4934 ++	92.85
$Cl_2Si[CH_2CH_2CH_2Si(CH_3)Cl_2]_2$	198-200/16	47-48			
$Cl_2Si[CH_2CH_2CH_2Si(CH_3)_3]_2$	121-122/4		0.9386	1.4560	95.44
$(C_2H_5)_3SiCH_2CH_2SiHCl_2$	109-111/12		1.0066	1.4650	66.83
$Cl_2Si[CH_2CH_2Si(C_2H_5)_3]$ $\cdot[CH_2CH_2CH_2Si(CH_3)_3]$	165-167/10		0.9573	1.4680	103.84
$(CH_3)_2Si[CH_2CH_2CH_2Si(CH_3)_3]_2$	116-118/8		0.7960	1.4410	95.77
$(CH_3)_2Si[CH_2CH_2Si(CH_3)_3]_2$	101-103/14		0.7952	1.4402	86.42

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S/020/62/142/003/018/027
B106/B110

Study of the addition reaction...

A study of the infrared spectra of synthesized organosilicon bridge compounds showed that the addition of dichloro silane to vinyl and allyl silanes does not follow the Markovnikov's rule. The physical properties of the synthesized compounds are the following:

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Study of the addition reaction...

($X = CH_3$, C_2H_5, Cl; $n = 0, 1$). All reactions were conducted in a 50 ml steel autoclave. Table 1 shows the reaction conditions and yields of reaction products. The structure of alkenyl silane largely affects the yield of addition products which decrease as the number of electronegative groups on the silicon atom of alkenyl silane increases, and also during the conversion of vinyl silanes into allyl silanes. According to A. V. Topchiyev, N. S. Nametkin, and S. G. Durgar'yan (Ref. 18: DAN, 130, 105 (1960)) it is vice versa when trichloro silane is added to diallyl silane in the presence of platinum hydrochloric acid. Addition of dichloro silane to alkenyl silanes takes place stepwise: first, one Si-H bond reacts, then the other with the relative reaction rate of the first Si-H bond being higher than that of the second one. This behavior agrees with the data given by two of the authors and V. A. Ponomarenko (Ref. 20: DAN, 126, 1009 (1959); Ref. 21: DAN, 130, 333 (1960)) on the addition of silicon hydrides to olefins, and may be used for the synthesis of organo-silicon monomers with various bridge bonds:

(a) $H_2SiCl_2 + CH_2{=}CHSiX_3 \longrightarrow H(Cl_2)SiCH_2CH_2SiX_3$,

(b) $H(Cl)_2SiCH_2CH_2SiX_3 + CH_2{=}CHCH_2SiX_3 \longrightarrow Cl_2Si(CH_2CH_2SiX_3)(CH_2CH_2CH_2SiX_3)$.

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S/020/62/142/003/018/027
B106/B110

15.8170
5.3700

AUTHORS: Odabashyan, G. V., Zhuravleva, T. A., and Petrov, A. D., Corresponding Member of the AS USSR

TITLE: Study of the addition reaction of dichloro silane to alkenyl silanes

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 3, 1962, 604 - 607

TEXT: Silicon hydrides and alkenyl silanes react easily and with good yields in the presence of platinum hydrochloric acid under comparatively mild conditions following the scheme:

(a) $X_3Si(CH_2)_nCH=CH_2 + HSiX_3 \longrightarrow X_3Si(CH_2)_nCH_2CH_2SiX_3$,

(b) $X_2Si\left[(CH_2)_nCH=CH_2\right]_2 + 2HSiX_3 \longrightarrow X_2Si\left[(CH_2)_nCH_2CH_2SiX_3\right]_2$

($X = CH_3$, C_2H_5, C_3H_7, C_4H_9, C_6H_5; Cl; $n = 0, 1$). The possibility of producing organosilicon monomers by adding dichloro silane to alkenyl silanes in the presence of platinum hydrochloric acid, was studied in this connection: $H_2SiCl_2 + 2CH_2=CH(CH_2)_nSiX_3 \longrightarrow Cl_2Si\left[CH_2CH_2(CH_2)_nSiX_3\right]_2$

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

33272
S/062/62/000/001/013/015
B101/B110

Synthesis of bis(γ-trifluoro-propyl) ...

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: July 19, 1961

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

Synthesis of bis(γ-trifluoro-propyl) ...

autoclave at dry-ice temperature, and heated to 160°C. $Cl_3SiCH_2CH_2CF_3$ or $CH_3(Cl_2)SiCH_2CH_2CF_3$ are formed as by-products. The reaction $CF_3CH_2CH_2SiHCl_2 + CH_2=CHCF_3$ was also studied; it took 5 hr; the yield of I was 37%. $CF_3CH_2CH_2SiHCl_2$ was synthesized in cooled ethereal solution by dropwise addition of $CF_3CH_2CH_2MgCl$ (produced from $CF_3CH_2CH_2Cl$ + Mg) to $HSiCl_3$, yield 20.5%. The infrared spectra showed that the silyl group added to the terminal carbon atom of the double bond. Compound I is considered to be a promising monomer for fluorinated polyorganosiloxanes. There are 1 table and 8 references: 4 Soviet and 4 non-Soviet. The four references to English-language publications read as follows: E. T. McBee, C. W. Roberts, G. F. Judd, T. S. Chao, J. Amer. Chem. Soc., 77, 1292 (1955); A. M. Geyer, R. N. Haszeldine, K. Leedham, R. J. Marklow, J. Chem. Soc., 1957, 4472; R. N. Haszeldine, M. J. Newlands, J. B. Plumb, Proc. Chem. Soc., no. 4, 147 (1960); English Patent 805026 (1958), Chem. Abstrs. 53, 9059h (1959).

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

33272
S/062/62/000/001/013/015
B101/B110

5 3700

AUTHORS: Petrov, A. D., Ponomarenko, V. A., and Odabashyan, G. V.

TITLE: Synthesis of bis(γ-trifluoro-propyl) dichloro silane

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 1, 1962, 174 - 176

TEXT: An improved method of synthesizing $(CF_3CH_2CH_2)_2SiCl_2$ (I, is described. The addition of dichloro silane to $CF_3CH=CH_2$ described before (Dokl. AN SSSR, 126, no. 5, 1009 (1958)) yielded only <26% of I in the presence of H_2PtCl_6. It was found that with competitive addition of silanes to unsaturated compounds the addition of the one silane was accelerated while that of the other one was retarded. Experiments confirmed that the reaction between H_2SiCl_2, $HSiCl_3$, and $CH_2=CHCF_3$, or between H_2SiCl_2, CH_3SiHCl_2, and $CH_2=CHCF_3$ yielded between 31 and 36% after 2-3 hr in the presence of H_2PtCl_6. The reaction components are filled in the

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S/020/61/137/002/012/020
B103/B215

Organo-silicon monomers with...

Таблица 1

№ п. п.	Кремний-гидрид	Количество, г (моль)	Винилтетрафторциклобутан, г (моль)	Количество 0,1 М раствора H_2PtCl_6, мл	Вес продукт. реакции, г	Продукты реакции	Выход г	Выход %
1	Cl_3SiH	13,6 (0,1)	15,4 (0,1)	0,1	27,5	$Cl_3SiCH_2CH_2\overline{CHCF_2CF_2CH_2}$	26,5	91,0
2	CH_3SiCl_2H	14,0 (0,12)	16,5 (0,11)	0,2	29,5	$CH_3(Cl_2)SiCH_2CH_2\overline{CHCF_2CF_2CH_2}$	25,8	91,0
3	$C_2H_5SiCl_2H$	8,0 (0,06)	9,0 (0,06)	0,1	16,0	$C_2H_5(Cl_2)SiCH_2CH_2\overline{CHCF_2CF_2CH_2}$	13,9	82,0
4	$CH_3(C_2H_5)SiClH$	10,0 (0,1)	15,4 (0,1)	0,1	25,7	$CH_3(C_2H_5)(Cl)SiCH_2CH_2\overline{CHCF_2CF_2CH_2}$	20,6	79,0
5	$CH_3(C_2H_5)_2SiH$	10,5 0,1)	15,4 (0,1)	0,1	24,5	$CH_3(C_2H_5)_2SiCH_2CH_2\overline{CHCF_2CF_2CH_2}$	18,3	72,6
6	$C_2H_5SiCl_2H$	5,8 (0,04)	6,0 (0,04)	0,05	11,3	$C_2H_5(Cl_2)SiCH_2CH_2\overline{CHCF_2CF_2CH_2}$	8,9	70,0
7	Cl_2SiH_2	7,5 (0,075)	23,2 (0,15)	0,3	25,6	$Cl_2Si(CH_2CH_2\overline{CHCF_2CF_2CH_2})_2$	14,2	46,0
1	2	3	4	5	6	7	8	9

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Legend to Table 1: 1) current number; 2) silicon hydrides;, 3) quantity in g (moles); 4) vinyltetrafluorocyclobutane in g (moles); 5) quantity of the 0.1 M solution of H_2PtCl_6, ml; 6) weight of the reaction products, g; 7) reaction products; 8) yield, g; 9) yield, %.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

Organo-silicon monomers with...

to English language publications reads as follows: J. D. Park, J. D. Groves, J. R. Lacher, J. Org Chem., 25, no. 9, 1628 (1960).

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy of Sciences USSR)

SUBMITTED: December 7, 1960

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Organo-silicon monomers with...

$$CH_2=CH-CH=CH_2+CF_2=CF_2\rightarrow CH_2=CH\overline{CHCF_2CF_2CH_2}; \quad (I)$$

$$R_nCl_{3-n}SiH+CH_2=CH\overline{CHCF_2CF_2CH_2}\xrightarrow{H_2PtCl_6}R_nCl_{3-n}SiCH_2CH_2\overline{CHCF_2CF_2CH_2}; \quad (II)$$

$R = CH_3, C_2H_5, C_6H_5$; $n = 0, 1, 2, 3$.

They found that butadiene can easily be condensed by ethylene tetrafluoride (I). The yield of $CH_2=CH\overline{CHCF_2CH_2CH_2}$ was 90% (Ref. 5., D. D. Goffman, P. L. Barrik et al., J. Am. Chem. Soc. 71, 490 (1948)). From Table 1 it follows that high yields of the silicon hydrides used by the authors are added to vinyltetrafluorocyclobutane in the presence of chloroplatinic acid. The authors succeeded in adding dichlorosilane to two molecules of vinyltetrafluorocyclobutane under harder conditions (in the autoclave at 130°C and in the presence of the above acid. The corresponding monomer (no. 7) was obtained in a yield of 46%. It is noted that the polymers produced from the above monomers show valuable properties according to non-Soviet publications. There are 1 table and 5 non-Soviet-bloc references. The reference

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158115 2209

S/020/61/137/002/012/020
B103/B215

AUTHORS: Odabashyan, G. V., Ponomarenko, V. A., Kovalev, Yu. N. and Petrov, A. D. Corresponding Member AS USSR

TITLE: Organo-silicon monomers with cyclobutyl rings containing fluorine

PERIODICAL: Doklady Akademii nauk SSSR, v. 137, no. 2, 1961, 338-340

TEXT: Following British and US papers on the synthesis of organosilicon monomers with cyclobutyl rings containing fluorine (Scheme A, at 210°C, for 24-36 hr),

$$CF_2=CFCl + CH_2=CHSiCl_3 \xrightarrow[24\ час.]{210^\circ} Cl_3SiCHCFClCF_2CH_2; \quad A.$$

$$CF_2=CF_2 + CH_2=CHSi(CH_3)Cl_2 \xrightarrow[86\ час.]{210^\circ} CH_3(Cl_2)SiCHCF_2CF_2CH_2 \text{ и т. д.}$$

the authors studied a new method of synthesis (Scheme B: (I), (II)).

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ODABASHYAN, G.V.; PONOMARENKO, V.A.; PETROV, A.D.

Organic silicon fluorides. Usp.khim. 30 no.8:941-981 Ag '61.
(MIRA 14:9)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.
(Silicon fluoride) (Silicon organic compounds)

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D205/D302

addition product were obtained. Mixtures of $C_2H_5SiCl_2H$ with each of the following compounds: Cl_3SiH, $(CH_3)(C_2H_5SiClH$, $(CH_3)(C_2H_5)_2SiH$ and $(CH_3)(C_2H_5)_2SiH$ were reacted with the same ether (I) to examine the relative reactivity. On the basis of the results the following reactivity series was constructed: $(CH_3)(C_2H_5)_2SiH > (CH_3)C_2H_5)ClSiH > (C_2H_5)Cl_2SiH > Cl_3SiH$. A chain-radical mechanism is proposed for the reaction. The adsorption forces of the reactants on the catalyst are supposed to play an important role in the reaction. There are 2 figures, 2 tables and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: I. A. Young and P. Tarrant, J. Amer. Chem. Soc., 71, 2432, (1949).

ASSOCIATION: Institut organicheskoy khimii, AN SSSR, Moskva (Institute of Organic Chemistry, AS USSR, Moscow)

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S/661/61/000/006/018/081
D205/D302

AUTHORS: Ponomarenko, V. A., Petrov, A. D., Krokhmalev, S. I. and Odabashyan, G. V.

TITLE: Catalytic addition of hydrosilanes to unsaturated compounds

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh soyedineniy; trudy konferentsii, no. 6, Doklady, diskussii resheniye. II Vses. Konfer. po khimii i prakt. prim. kremneorg. soyed., Len. 1958. Leningrad. Izd-vo AN SSSR. 1961, 95-99

TEXT: The reactions of Cl_3SiH, $(CH_3)Cl_2SiH$, $(C_2H_5)Cl_2SiH$, $(C_3H_7)Cl_2SiH$, $CH_3(C_2H_5)ClSiH$, and $CH_3(C_2H_5)_2SiH$ with $CH_2=CHCH_2OCF_2CF_2H$ (i) were performed at 160 - 180°C and 10 - 16 atm., during 3 hours in the presence of 0.3 g of 1% platinized carbon. The total charge of the reactants was 90 g. The highest yield of 63% was obtained with $(C_2H_5)Cl_2SiH$, while with $CH_3(C_2H_5)_2SiH$ only traces of the

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67368

Synthesis of Organosilicon Monomers From Methyl- SOV/20-130-2-24/69
chlorosilane

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: September 11, 1959

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Synthesis of Organosilicon Monomers From Methyl- SOV/20-130-2-24/69
chlorosilane

same conditions. A fluorine-containing compound of the type RR'R"SiCl develops here. Methylchlorosilane adds to trifluoropropylene more difficultly than to propylene. In this respect, CH_3SiH_2Cl behaves similarly as Cl_2SiH_2.

In the above investigation, the authors succeeded in realizing a nonorganometallic synthesis of such alkyl-(aryl-)-silane- and disilane chlorides as $(CH_3)(R)SiHCl$, $(CH_3)(R)_2SiCl$, $(CH_3)(R')(R")SiCl$ and $(CH_3)(Cl)(R)SiCH_2CH_2Si(R)(Cl)(CH_3)$, where R, R', and R" are the groups $CH_2=CH—$, $C_6H_5—$, $C_2H_5—$, $C_3H_7—$, $CF_3CH_2CH_2—$ and others. Table 1 gives a survey of results of the addition of silicon hydrides to unsaturated compounds. Table 2 indicates the physical properties of the compounds produced. Three of them are novel. There are 2 tables and 4 Soviet references.

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yield in reaction products with the first Si-H bond is much smaller in this case. In this respect, the same picture prevails as in the reactions of Cl_3SiH and CH_3SiHCl_2 with chlorobenzene (Ref 4). Besides, up to 10% of the interaction product with both Si-H bonds was isolated at a time in thermal condensation of dichlorosilane with chlorobenzene. On the other hand, it was not possible to produce methyldiphenylchlorosilane from methylchlorosilane. Table 1 shows that scheme (2) can be realized much more easily than scheme (1). Methylchlorosilane reacts almost as easily with ethylene and propylene as dichlorosilare. This concerns the reaction on one and two Si-H bonds of methylchlorosilane to the same extent. The $(CH_3)(C_2H_5)SiHCl$ developing in a sufficiently good yield is easily transformed into $CH_3(C_2H_5)(Cl)SiCH_2CH_2Si(Cl)(C_2H_5)CH_3$ in the presence of H_2PtCl_6 in the reaction with acetylene. $(CH_3)(C_2H_5)SiHCl$ usually reacts with $CH_2=CHCF_3$ under the

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5.3700 (B) (c)
~~5(2), 5(3)~~

87568
SOV/20-130-2-24/69

AUTHORS: Ponomarenko, V. A., Odabashyan, G. V., Petrov, A. D., Corresponding Member AS USSR

TITLE: Synthesis of Organosilicon Monomers From Methylchlorosilane

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 2, pp 333 - 335 (USSR)

ABSTRACT: In the present paper , the authors used CH_3SiH_2Cl which can be produced easily and in good yields by disproportionation of CH_3SiHCl_2 in the presence of cyanamide catalysts (Ref 3). The carrying out of the reactions on one or both Si-H bonds of methylchlorosilane promised the realization of a non organometallic synthesis of several organosilicon monomers (see Scheme). To realize scheme (1) the reaction of thermal condensation of methylchlorosilane with chlorobenzene and with vinyl chloride at 550-650° and atmospheric pressure was chosen. As compared with dichlorosilane, methylchlorosilane reacts more difficultly in thermal condensation with C_6H_5Cl and with $CH_2=CHCl$. The

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25659
S/080/60/033/012/015/024
D209/D305

Synthesis of fluoro-organosilicon ...

ASSOCIATION: Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy of the AS USSR)

SUBMITTED: March 24, 1960

Card 5/5

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25659
S/081/60/053/012/015/024
Synthesis of fluoro-organosilicon ... D204/D302

ration of the following compounds is also described: 1,1,2,2-tetrafluoroethylester γ-hydroxypropyl-phenyldichlorosilane; 1,1,2,2 tetrafluoroethyl ester γ-hydroxypropyl-methylphenyldichlorosilane; 1,1,2,2-tetrafluoroethyl ester γ-hydroxypropyl-dichlorosilane; 1,1,2-trifluoro-2-chloroethyl ester γ-hydroxypropyl-dichlorosilane; 1,1,2,2 tetrafluoroethyl ester γ-hydroxypropyl-n-propylchlorosilane; 1,1,2,2 tetrafluoroethyl ester γ-hydroxypropylmethylphenylchlorosilane. It was found that silicon hydrides ($SiCl_3H$, $SiCH_3HCl_2$, etc) under the effect of 1 % platinized carbon form addition products with fluoroethyl-allyl esters by joining to the end the multiple-bond C atom of the latter, in accordance with the homolytic character of this reaction. There are 2 tables and 17 references: 11 Soviet-bloc and 6 non-Soviet-bloc. The four most recent references to the English-language publications read as follows: G.H. Wagner, U.S. Patent, 2,632,013, 1953; J.L. Speier, J.A. Webster, and G.H. Barnes, J. Amer. Chem. Soc., 79, 974, 1957; L. Goodman, R.M. Silverstein, and A. Bernitsen, J. Amer. Chem. Soc., 79, 3073, 1957; G.H. Wagner, U.S. Patent, 2,637,738, 1953.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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3) By comparison of spectra KRS (II) with those obtained by synthesis as follows:

$$(CH_3)_3SiCH_2CH_2CH_2OH + CF_2 = CF_2 \xrightarrow{Na} (CH_3)_3SiCH_2CH_2CH_2OCF_2CF_2H.$$

The spectra obtained by various methods were identical as were also other physical constants. It was found that α- and β-alcohols, as well as γ-alcohols could be readily added to $CF_2 = CF_2$ and $CF_2 = CFCl$ in the presence of Na alcoholate. A series of experiments is described in detail, e.g. in preparing γ, 1,2-trifluoro-2-chlorosethane ester γ-hydroxy propyl-phenyldichlorosilane, 17.7 g (0.1 mole) phenyldichlorosilane and 17.4 g $CH_2 = CHCH_2OCF_2CFClH$, with 0.3 ml of 0.1 M solution of $H_2PtCl_6 \cdot 6H_2O$ in isopropyl alcohol, were gradually heated in a 500 ml stainless steel autoclave for 50 minutes. At 120°C the temperature and key rose to 130°C with a product yield of 34 g. Distillation in vacuum yielded 27 g (77 %) of the pure product, with b.p. 148°C, d_4^{20} 1.34[illegible], n_D^{20} 1.4825. Prepa-

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

Synthesis of fluoro-organosilicon ...

previous conclusion on the possibility of preparing Si hydrides of the type $RSiHCl_2$ was verified. Reference is made also to an earlier work in which the order of addition of alkyl-Si hydrides in the presence of Pt/C and H_2PtCl_6 is discussed (Ref. 2: DAN SSSR, 106, 1, 78, 1956; Ref. 10: DAN SSSR, 121, 2, 1958; Ref. 14: Izv. AN SSSR, 9, 1610, 1960). The Farmer rule mostly applies though there are exceptions. This was shown by: 1) Addition of methyldichlorosilane and trichlorosilane to $CH_2 = CHCH_2OCF_2CF_2H$ in the presence of 1% Pt/C

$$(CH_3)_n(Cl)_{3-n}SiH + CH_2 = CHCH_2OCF_2CF_2H \longrightarrow (CH_3)_n(Cl)_{3-n}SiCH_2CH_2CH_2OCF_2CF_2H; \quad (I)$$

where n = 0 or 1. 2) Methylation of the products obtained

$$(CH_3)_n(Cl)_{3-n}SiCH_2CH_2CH_2OCF_2CF_2H \xrightarrow{CH_3MgBr} (CH_3)_3SiCH_2CH_2CH_2OCF_2H. \quad (II)$$

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25659
S/080/60/033/012/015/024
D209/D305

53700

AUTHORS: Ponomarenko, G.V., Odabashyan, G.V., Lifanova, I.N., and Petrov, A.D.

TITLE: Synthesis of fluoro-organosilicon monomers by the additive reaction of silicon hydrides with unsaturated fluoro-compounds in the presence of platinum catalysts

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 12, 1960, 2751 - 2757

TEXT: Previous studies by the authors elucidated some general characteristics of the effects of structure of Si hydrides on the yield of addition compounds in the presence of platinized carbon showing these effects to be determined by inductive or steric effects of substitutes. It is shown in tabulated form that, in the presence of $H_2P + Cl_6$, Si hydrides and unsaturated fluoro-esters undergo additive reactions with yields as high as those obtained with alkyl and dialkylchlorosilanes. With SiH_2Cl_2, the authors

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RODZEVICH, N.Ye.; GRINEVICH, K.P.; ODABASHYAN, G.V.; PONOMARENKO, V.A.

Synthesis and study of the properties of polyorganosiloxanes containing n-FC_6H_4-, -$(CH_2)_3$-O-CF_2CFClH, and -$(CH_2)_3$-O-CF_2CF_2H groups. Zhur.prikl.khim. 33 no.4:957-961 Ap '60. (MIRA 13:9)

(Siloxanes)

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ODABASHYAN, G. V., Cand Chem Sci -- (diss) "Synthesis and properties of silicofluororganic compounds." Moscow, 1960. 15 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Lenin Chemical Technology Inst im D. I. Mendeleyev); 180 copies; price not given; (KL, 22-60, 132)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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cellent yields in the presence of H_2PtCl_6. There are 3 tables and 6 references, 3 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: April 3, 1959

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most quantitative. With an excess of unsaturated compounds only dialkyl-dichlorosilanes (R_2SiCl_2) are formed. In this connection the addition of the Cl_2SiH_2 was investigated not only in the simplest of the olefins, but also in more complicated, unsaturated compounds (the fluorated ether $-CH_2-CHCH_2OCF_2CFClH$). The $RSiHCl_2$ production under consideration, therefore, signifies an important evolution of the synthesis methods of this kind of monomers. With acetylene the reaction of the Cl_2SiH_2 is more complicated, as polymer products are formed. Under the given conditions of investigation the authors have not succeeded in obtaining vinyl- and divinyl-dichlorosilanes by this method. The result has always been a mixture of liquid and solid polymers boiling at a high temperature. Table 3 shows the physical properties of the products obtained by the addition of the phenyl-dichlorosilanes as well as of $p\text{-}FC_6H_4SiHCl_2$ to the $CH_2=CHCF_3$ (Table 2). They formed with ex-

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The Synthesis of Organosilicon Monomers From Dichlorosilane

$C_6H_5SiHCl_2$ as these led to the synthesis of new monomers ($RR'SiCl_2$) with various radicals on the silicon atom (in particular of such as contain fluorine). In spite of relatively severe temperature conditions of the reaction (600-680°) phenyl-dichlorosilane constitutes the chief product. Table 1 shows the results of the experiments. Dichlorosilane enters also into the reaction of the thermal condensation with vinyl dichlorosilane at 535-545°C. The only stable reaction product was vinyl dichlorosilane (yield 20%). The formation of a mixture of reaction products boiling at a high temperature indicates the complicated character of this reaction. The possibility proved in this manner of producing silanes of the type $RSiHCl_2$ from dichlorosilane and RCl, even at very high temperatures, extends the reactions of thermal condensation (Ref 5). The dichlorosilane addition to unsaturated compounds as ethylene and propylene (in the presence of H_2PtCl_6) may be considerably deflected and controlled in the direction of the compounds of $RSiHCl_2$ (Table 2). The yields were high and in some cases al-

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5 (2,3)

AUTHORS: Petrov, A. D., Corresponding Member AS USSR, Ponomarenko, V. A., Odabashyan, G. V.

SOV/20-126-5-27/69

TITLE: The Synthesis of Organosilicon Monomers From Dichlorosilane (Sintez kremneorganicheskikh monomerov iz dikhlorsilana)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1009 - 1012 (USSR)

ABSTRACT: It was to be assumed that dichlorosilane is a compound lending itself to many reactions. This might be concluded from the steric effect of the substituents, reduced to a minimum, as compared with the alkyl dichlorosilanes (Refs 1,2). At the same time, these transformations promised new possibilities which are interesting both from the theoretical and the practical point of view. The few fields of application of dichlorosilane hitherto rendered accessible, are enumerated (Refs 3,4). As could be foreseen in consequence of the two Si-H bonds, the authors - according to the conditions of the experiments, have obtained the two series of compounds $RSiHCl_2$ and R_2SiCl_2. They are interested in the first series, and in particular in

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Organic Fluosilicates. Investigation of the Addition Reaction of Alkyl Silicon-chloride Hydrides to 1,1,2,2-Tetrafluoro-ethyl Allyl Ether

SOV/20-124-4-30/67

radicals (besides other factors). The structure of the addition products was proved by a counter-synthesis. A comparison of the Raman spectra and other physical properties confirms the linearity of the products obtained in two ways. In conclusion, the synthesis, constants and yield (in part) of 11 addition products are discussed. There are 2 figures and 2 references, 1 of which is Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: July 14, 1958

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

that alkyl silicon-chloride hydrides form, according to their relative yields of addition products, the following series: $(CH_3)(C_2H_5)_2SiH > (CH_3)(C_2H_5)(Cl)SiH > (C_2H_5)(Cl)_2SiH > Cl_3SiH$ In the case of an addition of the product mentioned first to the ether mentioned in the subtitle, their yield cannot be increased either by drying the catalyst at 300° in vacuum, or by treatment with C_2H_5OH, or by removal of the possible humidity by $(CH_3)_2SiCl_2$, whereas even a small addition of $C_2H_5SiHCl_2$ rapidly increases the yield of addition products. Thus, it may be assumed that 1) the reaction of addition to platinized coal might be a radical chain-reaction; 2) the adsorbent powers of the reagent molecules on the surface of the catalyst evidently play an important part therein; 3) the levity of formation and the activity of silyl radicals depends on the nature of the substituents located at the Si. The above-mentioned particularities of the reaction of addition can be explained by the different activity of the individual silyl

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

5(2, 3)
AUTHORS: Petrov, A. D. Corresponding Member, AS USSR, Ponomarenko, V. A., Odabashyan, G. V., Krokhmalev, S. I.

SOV/20-124-4-30/67

TITLE: Organic Fluosilicates (Ftorkremniyorganicheskiye soyedineniya). Investigation of the Addition Reaction of Alkyl Silicon-chloride Hydrides to 1,1,2,2- Tetrafluoro-ethyl Allyl Ether (Izucheniye reaktsii prisoyedineniya alkilkhlorkremniygidridov k 1,1,2,2-tetra-ftoretilallilovomu efiru)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 4, pp 838-841 (USSR)

ABSTRACT: In a previous paper (Ref 1) the authors proved that the addition of alkyl silicon-chloride hydrides to $(CH_2 = CHCH_2OCF_2CF(Cl)H)$ (A) in the presence of platinized ccal is an uncomplicated method of synthesizing (simple) organic silicon fluoride ethers. In the present paper this reaction was studied more in detail with the substances mentioned in the subtitle. All experiments were performed under comparable conditions (Tables 1, 2). The respective results confirmed those earlier obtained (Fig 1), i. e. it was proved

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ODABASHYAN, G. V.

V. A. Ponomarenko, V. G. Cherkayev, G. V. Odabashyan, N. A. Zadorozhnyy and A. D. Petrov, "The Catalytic Adding of Hydrosilanes to Unsaturated Compounds."

Report presented at the Second All- Union Conference on the Chemistry and Practical Application of Silicon-Organic Compounds held in Leningrad from 25-27 September 1958.
Zhurnal prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

Organofluorosilic Compounds. Simple Organofluorosilicic Ethers.

SOV/20-121-2-31/53

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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Organofluorosilicic Compounds. Simple Organofluorosilicic Ethers.

4.-The data of table 2 tend to show that the alkyl chloro siliconhydrides may be arranged in the following order: $R_3SiH > R_2SiClH > RSiCl_2H > Cl_3SiH$. Also in this case an "activation" of the reaction by easily combinable compounds as well as an increase of the yield of the products of combination, as in case 1, seems not impossible. Most of the ethers produced are rather heat resistant. The fluoro-ether group remains untouched in the Grignard reaction and in the hydrolysis. There are 2 tables and 5 references, 3 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy AS USSR)

SUBMITTED: January 29, 1958

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Organofluorosilicic Compounds. Simple Organofluorosilicic Ethers

atoms at the Si besides a Si-H binding. The results of the experiments carried out on comparative conditions (heating to 170-180° for 3 hours) are shown in tables 1 and 2. From table 1 may be seen that the best yields were supplied by the following hydrisilanes: CH_3SiCl_2H, $C_2H_5SiCl_2H$, $(C_2H_5)(CH_3)SiClH$ and Cl_3SiH. The increase of the activity in this hydrisilane series agrees with the earlier observations made by the authors (Ref 2) and by other scientists (Ref 4). The comparison of the data of tables 1 and 2 allows to draw the following conclusions:

1. The conclusion drawn earlier with regard to the high activity of the hydrisilanes of the type $RSiCl_2H$ and R_2SiClH is confirmed.

2. The trichloro silane combines with greater difficulty with (I) than $C_2H_5SiCl_2H$ and $(C_2H_5)(CH_3)SiClH$. In the presence of the former the combination of Cl_3SiH to (I) takes place more actively.

3. The combination of $(C_2H_5)_2(CH_3)SiH$ to (I) together with $C_2H_5SiCl_2H$ and Cl_3SiH takes place in higher yields than without these chlorosilanes.

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SOV/20-121-2-31/53

AUTHORS: Petrov, A. D., Corresponding Member, Academy of Sciences, USSR, Ponomarenko, V. A., Odabashyan, G. V.

TITLE: Organofluorosilicic Compounds (Ftorkremniyorganicheskiye soyedineniya) Simple Organofluorosilicic Ethers (Prostyye ftorkremniyorganicheskiye efiry)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 2, pp. 307 - 310 (USSR)

ABSTRACT: In earlier articles (Refs 1-3) the authors wrote about the combination reaction of hydrisilanes to fluorolefines in the presence of platinized carbon. The experience gained in those experiments was used by them in the case of the simple ethers of allyl alcohol and of 1,1,2-trifluoro-2-chloro ethanol (I) as well as of 1,1,2,2-tetrafluoro ethanol. The purpose of this investigation was not only the production and the study of the properties of hitherto not described fluorized organosilicic ethers but also the influence exerted by the structure of the hydrisilanes on the course of the combination reaction of compounds having a gradually decreasing number of chlorine

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OCZYK, W.

"Dairy cooperatives are developing in villages; where compulsion failed, cocperation succeeded".

p. 6 (Rolnik Spoldzielca) Vol. 10, no. 5, Feb, 1958
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

OCZOS, Kazimierz, mgr.,inz.

Activities of the Polish Association of Engineers and Technicians in the Rzeszow Province. Przegl mech 20 no.19/20:633-634 '61.

1. Przewodniczacy Oddzialu Rzeszowskiego Stowarzyszenia Inzynierow i Mechanikow Polskich.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

OCZOS, Kazimierz, mgr. inz.

Engineering School in Rzeszow. Przegl mech 20 no.19/20: 622-624 '61.

1. Politechnika Krakowska.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

OCZOS, Kazimierz, Mgr.inz.

A technical conference on the automobile bodies. Tech motor 11 no.12:397-398 D '61.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

GIETKA, Jan; OCZKOWSKI, Stefan; GRABOWSKI, Tadeusz

Weber-Christian disease. Polskie arch. med. wewn. 28 no.3:377-395 1958

1. Z Oddzialu Wewnetrznego Centralnego Szpitala M.O.N. Kierownik: prof. dr med. Mieczyslaw Kedra i Wojskowej Centralnej Pracowni Anatomopatologicznej i Medycyny Sadowej Kierownik: dr med. Jerzy Winowski. Adres autora: Warszawa, Raclawicka 27/45.
(PANNICULITIS, case reports
Weber-Christian dis. (Pol))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

JACYNA, Konstanty; OCZKOWSKI, Stefan; SNIGUROWICZ, Jaroslaw

2 Cases of primary neoplasms of the heart. Polski tygod. lek. 13 no.25: 962-967 23 June 58.

1. (Z Oddz. Wewn. Centr. Szpitala M. O. M., kierownik prof. M. Kedra i z Oddz. Chirurgicznego Centr. Szpitala M.O.N.; kierownik: dr med. W. Zagorski). Adres: Warszawa, Centr. Szpiaal M.O.N.
(HEART, neoplasms
primary, case reports (Pol))

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

1660. **Two cases of primary tumour of the heart** Dwa przypadki pierwotnego nowotworu serca. JAGYNA K., OCZKOWSKI S. and ŚNIGUROWICZ J. Oddz. Wewn. Centr. Szpit. MON, Warszaw *Pol. Tyg. lek.* 1958, 13/25 (962–967) Graphs 2 Illus. 4

Both cases were only diagnosed at autopsy. Case 1: pericardiac mesothelioma in a man of 26; the tumour weighed 3,650 g.; the clinical picture was that of heart failure due to an active inflammatory process of the endocardium and myocardium; cardiotonic drugs had given a transient but distinct improvement. Case 2: myocardial sarcoma with metastases to the pulmonary hili and the right lung in a woman of 74; clinically it was a case of chronic circulatory failure, not reacting to medical treatment.

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OCZKOWSKI, S.

Excerpta Medica Sec. 6 Internal Medicine Vol. 9/5 May 55

2891. OCZKOWSKI S. Plac Dworcowy 3, Elbląg. *Przypadki brucelozy (odmiana tonicella świń) u ludzi w Polsce. Cases of brucellosis (variety Br. suis) in Poland POL. TYG. LEK. 1954, 9/26(816-817)

A report of 2 cases. The patients were treated with chloramphenicol or streptomycin. The results were good. The patients had been in contact with animals destined for slaughter. Bogdanowicz Warsaw (XX, 4, 6)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

OCZKOWSKI, Stefan (Elblag, plac Dworcowy 3)

Case of Brucella suis infections in Poland. Polski tygod. lek. 9
no.26:816-817 26 June 54.
(BRUCELLOSIS, suis)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

CABALSKA, Barbara; OCZKOWSKA, Maria; WYSZYNSKA, Teresa

A case of secondary renal amyloidosis in Still's disease. Pediat. pol. 37 no.9:949-952 S '62.

1. Z Oddzialu Klinicznego Chorob Wewnetrznych Dzieci Kierownik: prof. dr med. J. Raszek i z Zakladu Anatomii Patologicznej Kierownik: dr K. Borowiczowa Instytut Matki i Dziecka w Warszawie Dyrektor: prof. dr med. Fr. Groer.

(ARTHRITIS JUVENILE RHEUMATOID) (AMYLOIDOSIS)
(KIDNEY DISEASES)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

Bezkowska, Maria

NIKODEMOWICZ, Eugeniusz; CZAJKA, Stanislaw; GEBAUEROWA, Maria; GRZEGORCZYKOWA, Zofia; KRAKOWSKA, Maria; LACHOWICZ, Wanda; LASZCZKA, Czeslaw; MURCZYNSKA, Halina; OCZKOWSKA, Maria; PIENIQZEK, Janusz; STANOCH, Adolf

Pneumothorax at tuberculosis dispensaries in Cracow, 1943-1954. Gruzlica 24 no.8:637-652 Aug 56.

1. Z Dzialu Terenowego Instytutu Gruzlicy w Krakowie Dyrektor: prof. dr. St. Hornung i z Poradni Przeciwgruzliczych w Krakowie Kierownicy: dr. Z. Grzegorczykowa, dr. M. Krakowska, dr. Dz. Laszczka, dr. K. Mulak, dr. J. Pieniqzek, dr. A. Stanoch, dr. M. Wiejowski.
(PNEUMOTHORAX, ARTIFICIAL, statist.)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

WIELICZANSKI, Henryk; OCZKOWICZ-FILANOVICZ, Aleksandra

Glomerulonephritis in influenza. Wiad. lek. 18 no.2:109-112 15 Ja '65

1. Oddzial Chorob Wewnetrznykh Szpitala im. Dr. H. Wolf w Lodzi (ordynator: dr. med. H. Wieliczanski)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

EKIEL, J.; MUSIAL, W.; PRACKA, H.; OCZKOWICZ-FILANOWICZ, A.

Value of vectorcardiograms recorded with the use of an electrode network. Kardiol. Pol. 7 no.3:199-209 J '64.

1. Z II Kliniki Chorob Wewnetrznych Akademii Medycznej w Lodzi (Kierownik: prof. dr W. Musial).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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OCZKOWICZ, A.; BERGIEL, A.

Left branch block with features of right branch block in precordial leads. Myocardial infarct. Kardiol. pol. 6 no.1: 35-39 '63.

1. Z Kliniki Chorob Zakaznych Kierownik: prof. dr J. Chrzanowski i z II Kliniki Chorob Wewnetrznych AM w Lodzi Kierownik (p.o.); prof. dr W. Musial.

(HEART BLOCK) (ELECTROCARDIOGRAPHY)
(MYOCARDIAL INFARCT)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

MUSIAL, M.; KOLCZYCKA, Z.; OCZKOWICZ, A.; PRACKA, H.

Comparative electrocardiographic and vectorcardiographic studies in chronic pulmonary heart syndrome. Kardiol. Pol. 5 no.1:39-45 '62.

1. Z II Kliniki Chorob Wewnetrznych AM w Lodzi Kierownik: prof. dr J. Jakubowski.
(ELECTROCARDIOGRAPHY) (VECTORCARDIOGRAPHY)
(PULMONARY HEART DISEASE diag)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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BUIA, Al., dr., prof. univ. (Craiova); MIHAILESCU, I., dr., prof. univ. (Craiova); SAVULESCU, D., prof. (Craiova); DRĂCUT, C., prof. (Craiova); OCULEANU, M., prof. (Craiova)

Appraisal and suggestions on the botanical handbook for the 5th class. Natura Biologie 15 no.2:53-57 Mr-Ap '63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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OCTAVIAN, C.; PUIU, Al.

Publication of the Rumanian Encyclopedic Dictionary, an important event for Rumanian science and culture. Probleme econ 16 no.10:132-136 O '63.

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OCTAVIAN, C.

"Blood transfusionn", p. 30 (Stiinta Si Cultura, Vol. 5, no. 5, May 1953, Bucuresti)

SO: Monthly List of East European Accessions, Library of Congress, September 1953, Uncl. Vol. 2, No 9

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L 27201-66

ACC NR: AP6011580

glow to a two-step transition. A direct proof that this is triple resonance is also obtained by photometry of the green glow excited by the ir radiation, since its intensity was found to be proportional to the third power of the intensity of the exciting ir radiation. The authors thank B. I. Maksakov under whose guidance the single crystals were investigated, and to V. F. Kokorina and L. G. Ayo for supplying the optical filters. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 04Sep65/ OTH REF: 005

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

L 27201-66

ACC NR: AP6011580 SOURCE CODE: UR/0051/66/020/003/0526/0528

AUTHORS: Ocsyankin, V. V.; Feofilov, P. P. 43 B

ORG: none

TITLE: Triple optical resonance in crystals BaF_2-Er^{3+}

SOURCE: Optika i spektroskopiya, v. 20, no. 3, 1966, 526-528

TOPIC TAGS: barium compound, fluoride, activated crystal, light absorption, ir detection material, optic resonance

ABSTRACT: The authors report observation of a phenomenon which can be uniquely interpreted as a result of successive absorption of three quanta, i.e., triple optical resonance, during the course of observations of two-step transitions in various crystals with rare-earth activators, such as are employed for making infrared visible by summation of radiation (VISOR system). BaF_2 containing high concerntrations of Er^{3+} ions (up to 5 mol.%) intensely illuminated with ir light with a short-wave end point near 1.2 μ, showed a clearcut yellow-green glow at 77K, the spectrum of which consists of two groups of lines near 540 and 650 nm characteristic of the Er^{3+} ion. Comparison of the level scheme of Er^{3+} with the observed spectrum precludes the possibility of attributing this

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OCSVARI, R

Let us apply modern boarding methods.

p. 4
No. 3, Feb. 1955
KOZLEMENYEI
Budapest

SO: Monthly List of East European Accessions (EEAl), LC, Vol. 5, no. 3
March 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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OCSVAR, Rezso, okleveles mernok, fotechnologus

Concrete wall making by bored reinforced concrete piles connected with one another. Melyepitestud szemle 13 no.5: 231-236 My '63.

1. Fovarosi Melyepitesi Tervezo Vallalat; "Melyepitestudomanyi Szemle" szerkeszto bizottsagi tagja.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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VAJDA, Bela, okleveles mernok; OCSVAR, Rezso, okleveles mernok; TOTH-KECSKES, Pal, okleveles mernok

100 years of caisson [redacted] in Hungary. Melyepitestud szemle 13 no.1:1-15 Ja '63.

1. "Melyepitestudomanyi Szemle" szerkeszto bizottsagi tagja (for Ocsvar).

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OCSVAI, R.

On gunniting. p. 543

KOZLEKEDESTUDOMANYI SZEMLE. (Kozlekedes-es Kozlekedespitestudomanyi Egyesulet) Budapest, Hungary. Vol. 9, no. 12, Dec. 1959.

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no.2, Feb. 1960 Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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OCSVAR, R.

TECHNOLOGY

Periodical: MELYEPITESTUDOMANYI SZEMLE Vol. 9, no. 2, Feb. 1959.

OCSVAR, R. Commemorating the first university notes on civil engineering written in Hungarian. p. 74.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

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OCSVAR, R.

The use of closely driven iron piles as a temporary sustaining wall in dense soil.

p. 221 (Melyepitestudomanyi Szemle, Vol. 7, no. 7/8, July/Aug. 1957, Budapest, Hungary)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

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OCSVAR, R.

Imre Biczok's Betonkorrozio. Betonvedelem. (The Corrosion of Concrete, the Protection of Concrete); a book review.

p. 172 (Melyepitestudomanyi Szemle. Vol. 7, no. 5/6, May/June 1957. Budapest, Hungary)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

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OCSVAR, R.

OCSVAR, R. We should increase the transportation facilities for industrial building machines and equipment. p. 16. Tasks of the Planning Office of the Ministry of Metallurgy and Machine Industry in the second Five-Year Plan. p. 18.

Vol. 11, no. 16, Aug. 1956
MUSZAKI ELET
TECHNOLOGY
Budapest, Hungary

So: East European Accession, Vol. 6, No. 5, May 1957

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OCSVAR, R.

Hungarian experiences in sinking large reinforced-concrete open caissons, p. 309, MELYEPITESTUDOMANYI SZEMLE (Kozlekedesi Kiado) Budapest, Vol. 6, No. 7/8, July/Aug. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 11, November 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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OCSVAR, R.

Melyepitestudomanyi Szemle - Vol. 5, no. 4/5, Apr./May 1955.

Labor safety. p. 245.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

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OCSVAR, R.

Melyepitestudomanyi Szemle - Vol. 5, no. 4/5, Apr./May 1955.

Mechanization of civil engineering. p. 232.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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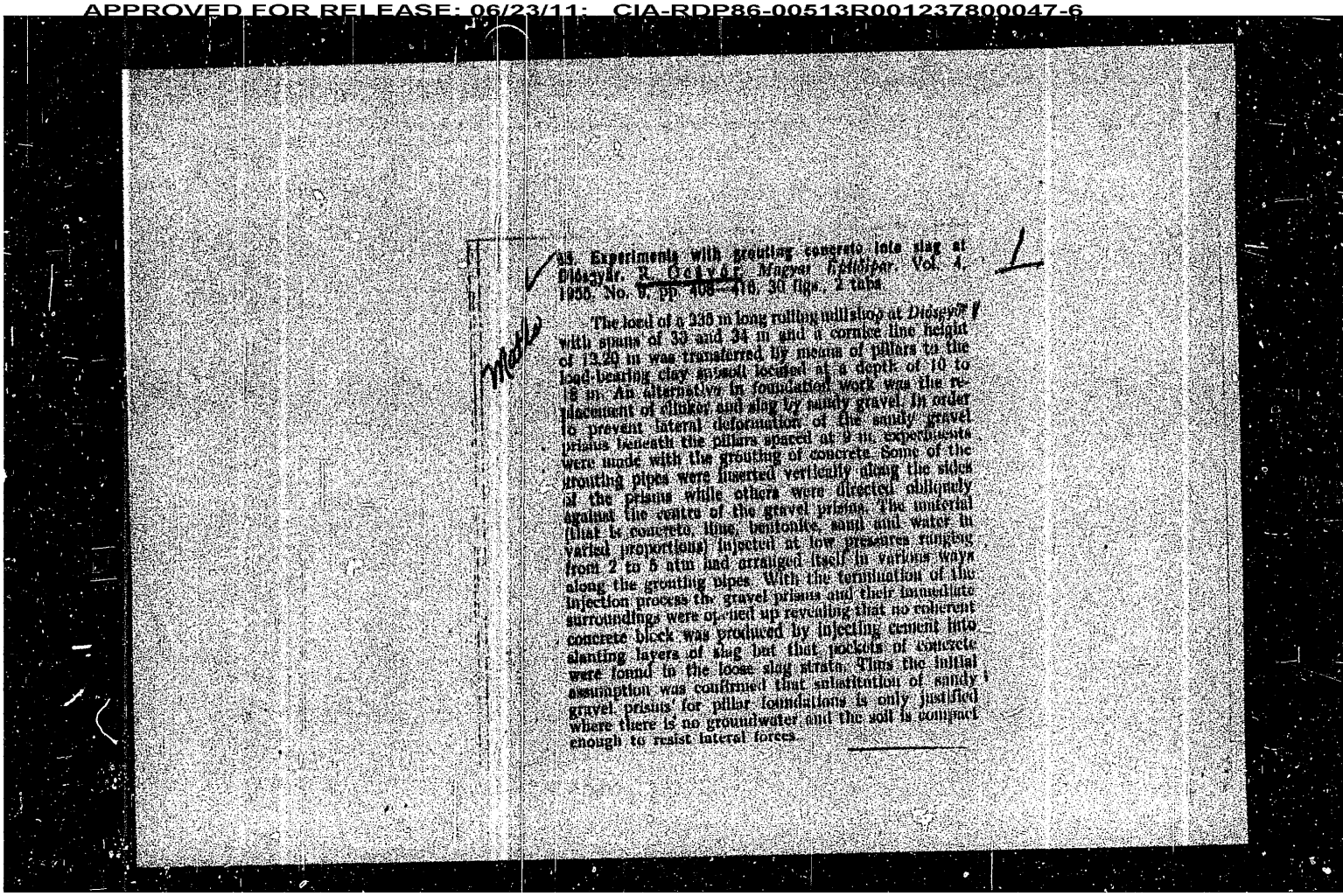

35. Experiments with grouting concrete into slag at Diósgyőr. K. Czitrai. *Magyar Építőipar*. Vol. 4, 1955. No. 9. pp. 408–416. 30 figs., 2 tabs.

The load of a 335 m long rolling mill-stand at Diósgyőr with spans of 30 and 34 m and a cornice line height of 13.20 m was transferred by means of pillars to the load-bearing clay and soil located at a depth of 10 to 18 m. An alternative in foundation work was the replacement of slinker and slag by sandy gravel. In order to prevent lateral deformation of the sandy gravel prisms beneath the pillars spaced at 9 m, experiments were made with the grouting of concrete. Some of the grouting pipes were inserted vertically along the sides of the prisms while others were directed obliquely against the centre of the gravel prisms. The material (that is concrete, lime, bentonite, sand and water in varied proportions) injected at low pressures ranging from 2 to 5 atm and arranged itself in various ways along the grouting pipes. With the termination of the injection process the gravel prisms and their immediate surroundings were dug up revealing that no coherent concrete block was produced by injecting cement into slanting layers of slag but that pockets of concrete were found in the loose slag strata. Thus the initial assumption was confirmed that substitution of sandy gravel prisms for pillar foundations is only justified where there is no groundwater and the soil is compact enough to resist lateral forces.

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OCSVAR, R.

Melyepitestudomanyi Szemle - Vol. 4, no. 12, Dec. 1954.

Organizational viewpoints in labor safety during road construction. p. 609.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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CSVAR, R.

"The significance of floating concrete mixers in connection with the production of solid monolith concretes." p. 250. (MAGYAR TECHNIKA, Vol. 8, no. 4, Apr. 1953. Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

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R. OCSVAR.

"Let us Give Uniform Hungarian Names to our Machines." p. 115 (Melyepitestudomanyi Szemle, Vol. 3, no. 3, Mar. 1953 Budapest.)

Vol. 2, no. 9
SO: Monthly List of East European Accessions./Library of Congress, Sept 1953, Uncl.

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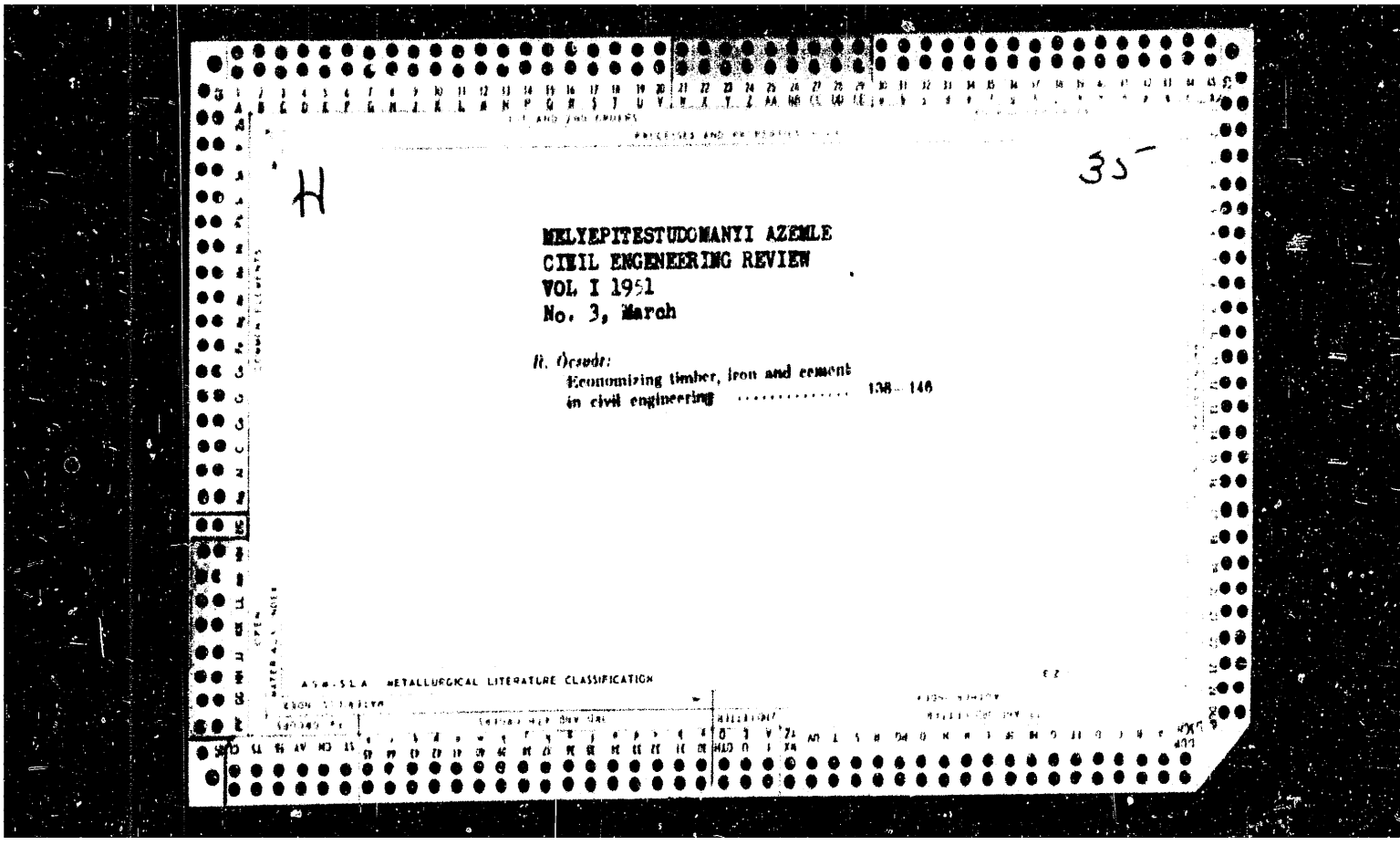

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MELYEPITESTUDOMANYI AZEMLE
CIVIL ENGENEERING REVIEW
VOL I 1951
No. 3, March

R. Ocsodr:
Economizing timber, iron and cement in civil engineering 138–146

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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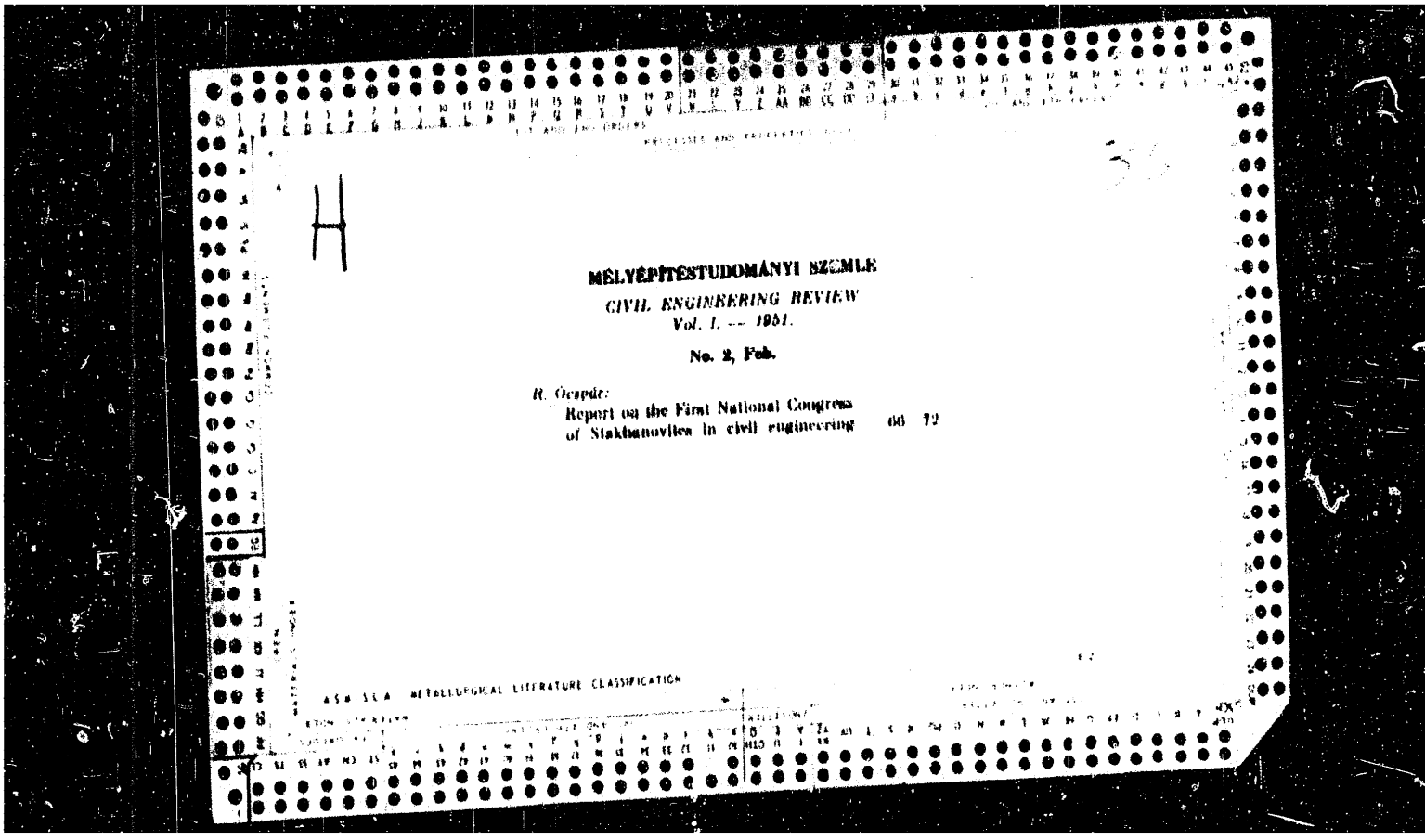

MÉLYÉPÍTÉSTUDOMÁNYI SZEMLE

CIVIL ENGINEERING REVIEW

Vol. I. — 1951.

No. 2, Feb.

R. Ocspár:
Report on the First National Congress of Stakhanovites in civil engineering 69 72

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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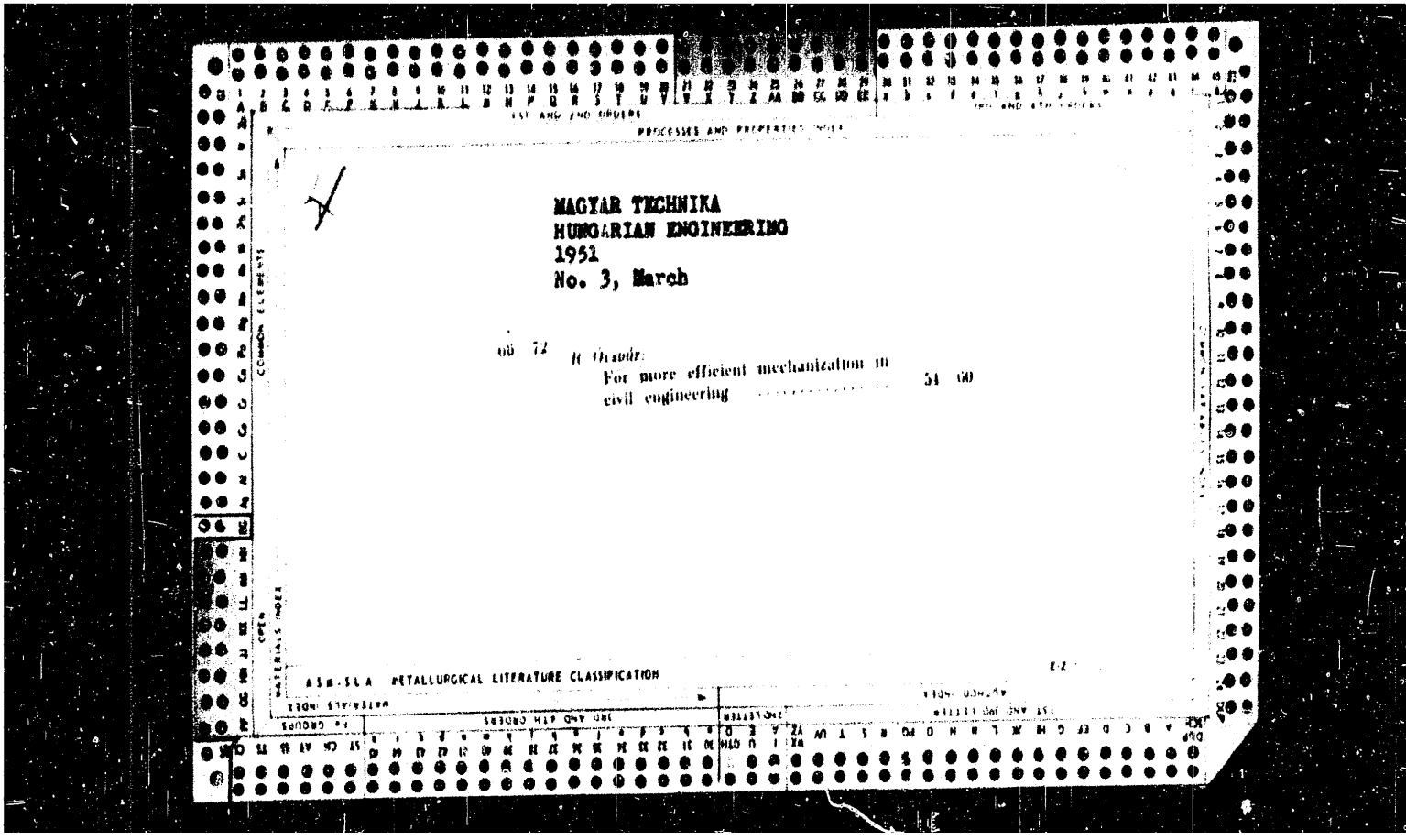

MAGYAR TECHNIKA
HUNGARIAN ENGINEERING
1951
No. 3, March

66 72 *K Orsódy:*
For more efficient mechanization in civil engineering 54 60

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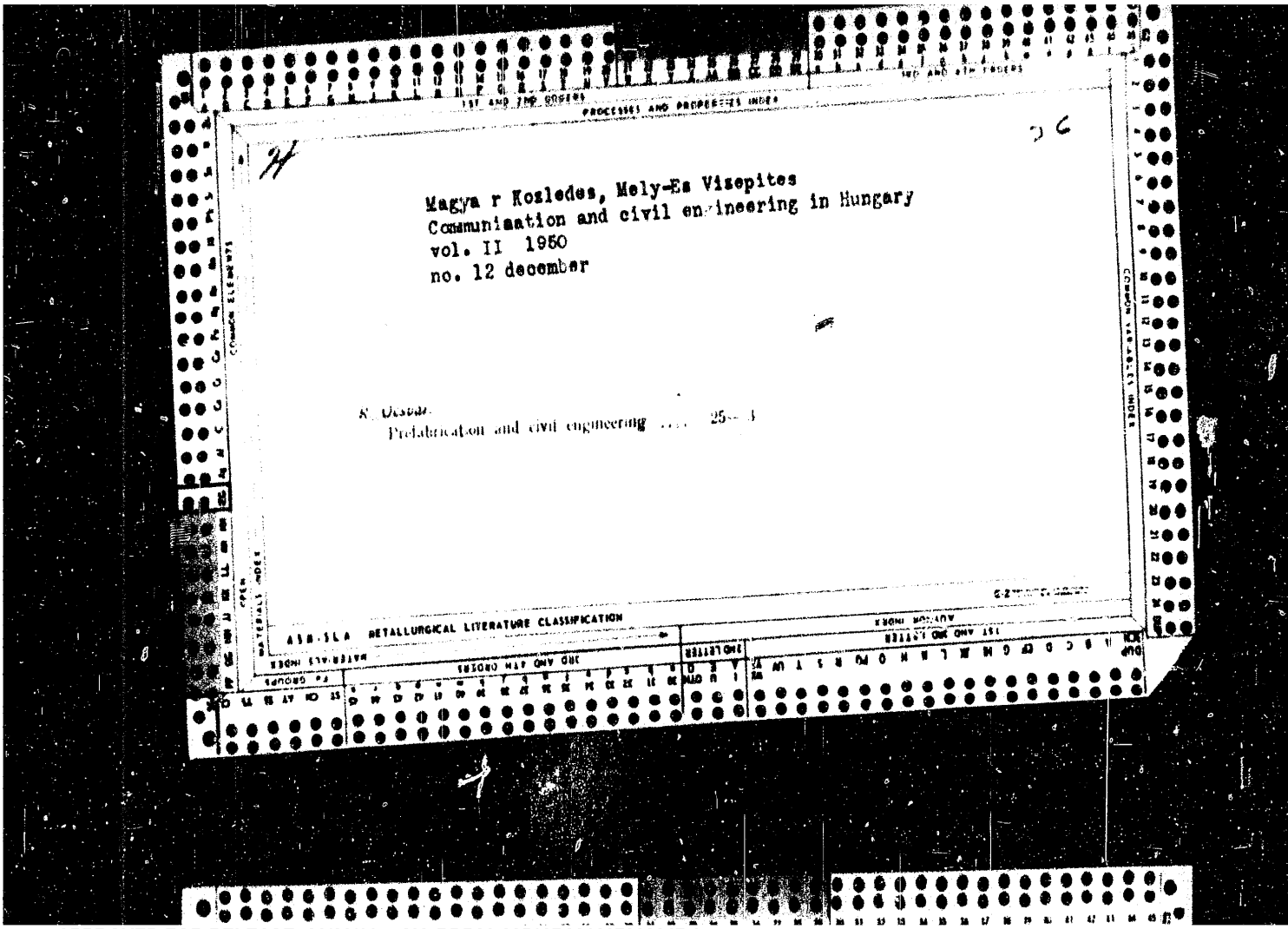

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VARDAY, Gyorgy, dr.; BICZOK, Imre; OCSVAR, Rezso; LANTOS, Zoltan; SZIMELY, Karoly; BERENYI, Akos, dr.; FEHER, Gyula; GALLI, Laszlo; BAKOS, Laszlo; CZIGLINA, Vilmos; GABOS, Gyorgy; SZILAGYI, Gyula; RONAI, Andras; KOVACS, Gyorgy; BACHMANN, Alfred; STEGMULLER, Jozsef; RETHATI, Laszlo; NAGY, Zoltan.

Hydrological questions of the construction industry in Hungary. Hidrologiai kozlony 36 no.3:169-170 Je'56.

1. "Hidrologiai Kozlony" szerkeszto bizottsagi tagja (for Galli).
2. "Hidrologiai Kozlony" felelos szerkesztoje (for Kovacs).

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PATKAI, Imre, dr.; SOVAGO, Mihaly, dr.; OCSOVSZKY, Laszlo, dr.; PECZELY, Peter; MILE, Daniel

Data on the avifauna of East Hungary. Aquila 69/70:268 '62-'63 [publ. '64].

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GSOVSKY, Lassio, dr.

Meeting of the [illegible] held at Czechoslovakia. [illegible] 2/60
251-252 [illegible]

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

ORMOS, Pal, dr.; OCSOVNSKY, Laszlo, dr.; HEVER, Odon, dr.

Dysentery epidemics through drinking water. Nepegeszsegugy 36 no.1:15-19 Jan 55.

1. Kozlemeny a Csongrad megyei tanacs vb. XI. egeszsegugyi osztalaraol es a hodmezovasarhelyi korhaz korzeti laboratoiumabol.

(DYSENTERY, epidemiology
in Hungary, transm. by drinking water.)
(WATER SUPPLY
drinking water, transm. in dysentery epidemics in Hungary.)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

OCSKAY, Imre, okleveles villamosmernok

Report on the session arranged by the Working Group, Council for Mutual Economic Assistance. Szabvany kozl 16 no.11:196 N '64.

1. Hungarian Bureau of Standards, Budapest.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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OCSKAY, Imre

Some practical questions relating to the standardization of electric cables and wires. Szabvany kozl 15 no.10:219-222 O '63.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

OCSKAY, Imre

Electric heat devices. Szabvany kozl 16 no. 4:67 Ap '64.

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L 44751-66 EWP(j)/T IJP(c) WW/RM

ACC NR: AP6032900 SOURCE CODE: HU/0025/65/024/001/0083/0084

AUTHOR: Ocskay, Gyorgy (Candidate of sciences)

ORG: none

TITLE: Report on the activities of the Work Committee on Plastics Chemistry

SOURCE: MTA. Kemiai tudomanyok osztalyanak kozlemenyei, v. 24, no. 1, 1965, 83-84

TOPIC TAGS: radical polymerization, polymer chemistry

ABSTRACT: The Work Committee on Plastic Chemistry (Muanyagkemiai Munkabizottsag) was formed on 12 Nov 63 under the direction of Ferenc Tudos, Doctor of Chemical Sciences. It met three times during 1964; the first meeting was held on 26-27 Mar 64, the subjects discussed being radical polymerization, solid-phase polymerization and the situation of Hungarian instruction in plastics chemistry. The second meeting, held on 2-3 Jul 64, heard papers on the characteristics of compounds analogous to polymers, the long-range development plan of Hungary's plastic industry, and properties of plastics in solution. The third meeting, held on 1-2 Oct 64 was devoted to papers on the visco-elastic behavior of polymers, electron spin resonance spectroscopy, as used in physical-chemical research and in the study of radical- and graft polymerization. [JPRS: 35,397]

SUB CODE: 07 / SUBM DATE: none

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OCSKAY, Gyorgy, kandidatus

Report on the discussion of Jozsef Gyimesi's dissertation prepared for obtaining the title of Candidate of Chemical Sciences. Kem tud kozl M., 22 no.1:105-106 '64.

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SOHAR, Pal, dr. (Budapest, VIII., Muzeum korut 4/b); VARSANYI, Gyorgy, prof., dr. (Budapest, XI., Budafoki ut 8); VARGHA, Laszlo, prof., dr. (Budapest, VII Rottenbiller u. 26); OCSKAY, Gyorgy, dr. (Budapest, VIII., Stahly u.13)

Infrared spectra of furyl methyl ketoxime isomers and their acyl derivatives. Acta chimica Hung 40 no.4:431-444 '64.

1. Research Institute of Pharmaceutical Industry, Budapest, Institute of Physical Chemistry, Technical University, Budapest, and Research Institute of Organic Chemical Industry, Budapest. 2. Editorial board member, "Acta Chimica Academiae Scientiarum Hungaricae" (for Vargha).

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OCSKAY, Gyorgy, a kemiai tudomanyok kandidatusa (Budapest)

Situation and perspectives of manufacturing fine chemicals in Hungary. Kem tud kozl MTA 14 no.3:369-376 '60. (EEAI 10:9)

(Hungary--Chemicals)

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OCSKAY, GY.; V'RGHA, L.

Stereospecific conversions in the furyl-2-ketoxime series. p. 143

ACTA CHIMICA. Budapest, Hungary, Vol. 19, no. 2/3, 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

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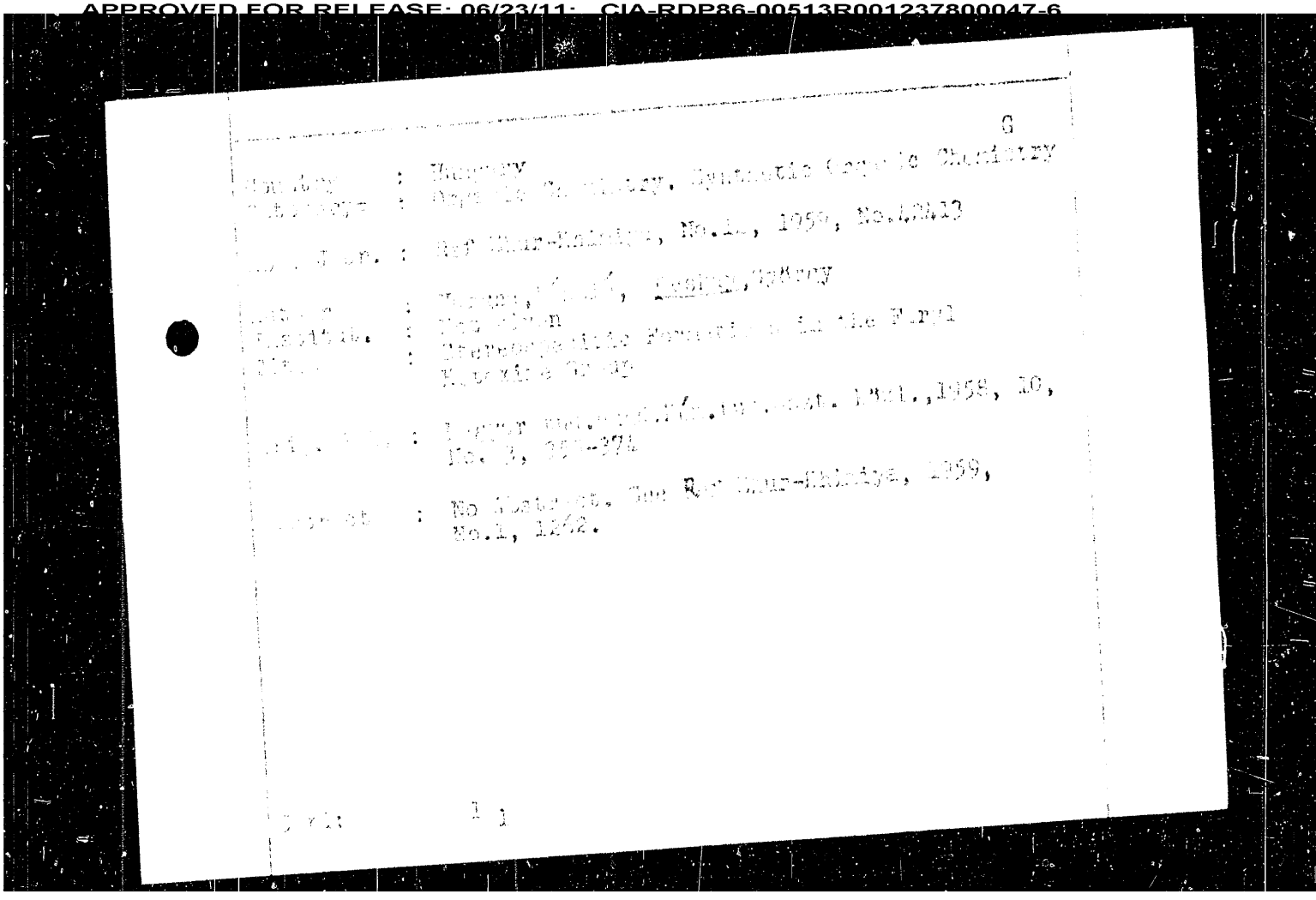

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Author : Mowry

Title : Note on Mr. Mowry, Synthetic Organic Chemistry

Publication : Ref Zhur-Khimiya, No.1-, 1959, No.420?3

Author : Mowry, [illegible], Cochran, Mowry

Author : Mowry, [illegible]

Publication : Petroleum Refiner, v 31 No 5 P?1
[illegible]

Publication : J Amer Pharmaceutical Assoc. Pract. Ed., 1958, 20, No. 3, 171-174

Publication : No Author. Ann Rep Chem-Pharmac, 1959, No.1, 1262.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

OCSENYI, Dezso

Against skin diseases. Hung no.2:20-21 F '63.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800047-6

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